Job Code Approved/Adopted Date
CITY OF RIVERSIDE

4325

HUMAN RESOURCES DEPARTMENT

CLASSIFICATION SPECIFICATION

12/19/05

Revised

TITLE: UTILITIES SENIOR WATER CONTROL SYSTEMS TECHNICIAN

DEFINITION

Under general supervision, to perform skilled and supervisory work in the design, installation, maintenance and repair of the automated water control system; to prepare plans, schematics, wiring diagrams and technical specifications for the purchase and installation of electronic, electro-mechanical, hydraulic and pneumatic control equipment; to supervise and participate in the programming, operation, testing and adjustment of control equipment and on-line minicomputer; and to do related work as required.

REPORTS TO: Utilities Water Operations Manager

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from the Utilities Water Operations Manager. Exercises general supervision over paraprofessional, technical and administrative support staff as assigned.

EXAMPLES OF DUTIES

Typical duties may include, but are not limited to, the following:

- Research publications and industry sources on automated control systems.
- Develop plans and technical specifications for the purchase of electronic, electro-mechanical, hydraulic and pneumatic control equipment.
- Prepare schematic and wiring diagrams for the automatic control of pumps and valves.
- Make cost estimates and prepare work orders and requisitions for purchase of materials.
- Prepare budgets and justifications for automated control system improvement.
- Work with telephone company personnel to add, modify and troubleshoot telemetry circuits.
- Assist in the inspection testing and initial start-up of control and telemetering systems.
- Make tests of adjustments to recording equipment and telemetering circuits.
- Initiate change orders for control system force account and contract work.
- Supervise and participate in the repair and replacement of control equipment, including electrical metering and switch-gear motors and pumps.
- Make additions and changes to existing on-line mini-computer programs, including set points, logging reports and control sub-routines.
- Keep system records and prepare reports as required.
- Coordinate construction and installation of contract work for control systems.
- Supervise, train and evaluate subordinate technical personnel.

QUALIFICATIONS

Knowledge of:

- Theory and practice of control systems using electronic, pneumatic, hydraulic and electro-mechanical equipment and mini-computers.
- Methods, tools and equipment used in installing, testing and repair of control systems.
- Telephone and radio transmission systems as they relate to telemetering.
- Computer programming as it relates to on-line control systems.
- Principles of supervision, training, and performance evaluation.

Ability to:

- Prepare plans, estimates and specifications.
- Prepare schematics and wiring diagrams.
- Communicate clearly and concisely, orally and in writing.
- Work under emergency conditions, day or night, and be willing to work when called anytime during a 24-hour period.
- Supervise, train, and evaluate subordinate-technical personnel.

Education and Experience:

Any combination of experience and education that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Education: Equivalent to an Associate Arts degree with major course work in electronics, mathematics

and computer programming.

Experience: Three years' experience in electronic telephone circuitry and radio systems related to

telemetry, including experience in the design and operation of control systems and computer

programming related to data-logging and automatic control.

MEDICAL CATEGORY: Group 1

NECESSARY SPECIAL REQUIREMENT

Possession of an appropriate, valid class "C" California Motor Vehicle Operator's License.

Possession of, or ability to obtain within six months a valid Water Distribution Certificate of the appropriate grade issued by AWWA and/or a Water Treatment Facility Operator's Certificate of the appropriate grade issued by the California State Department of Public Health as required by area of assignment.

CAREER ADVANCEMENT OPPORTUNITIES

FROM: Utilities Senior Water Control Systems Technician

TO: Utilities Water Operations Manager